

CURRENT 6.0 Ampere
 VOLTAGE RANG 50 to 1000 Volts

KBL6005 THRU KBL610

Maximum Ratings & Thermal Characteristics

Rating at 25 C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
 For Capacitive load derate current by 20%.

Parameter	Symbol						unit
Maximum repetitive peak reverse voltage	VRRM						
Maximum RMS bridge input voltage	VRMS						
Maximum DC blocking voltage	VDC						
Maximum average forward rectified output current at TA=50 C	IF(AV)						
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I						
Rating for fusing (t<8.3ms)	I ² t						
Typical thermal resistance per element(1)							
Operating junction and storage temperature range							

Electrical Characteristics

Rating at 25 C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
 For Capacitive load derate by 20 %.

Parameter	Symbol						Unit
Maximum instantaneous forward voltage drop per leg at 3.0A							
Maximum DC reverse current at rated TA =25 C DC blocking voltage per element TA =125 C							

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Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

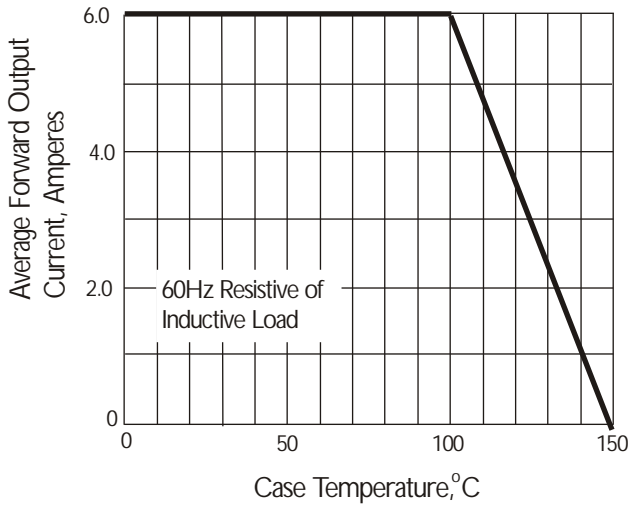


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

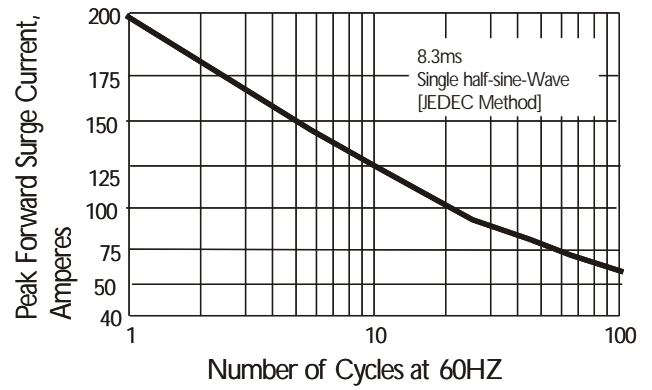


Fig. 3 Typical Instantaneous Forward Characteristics

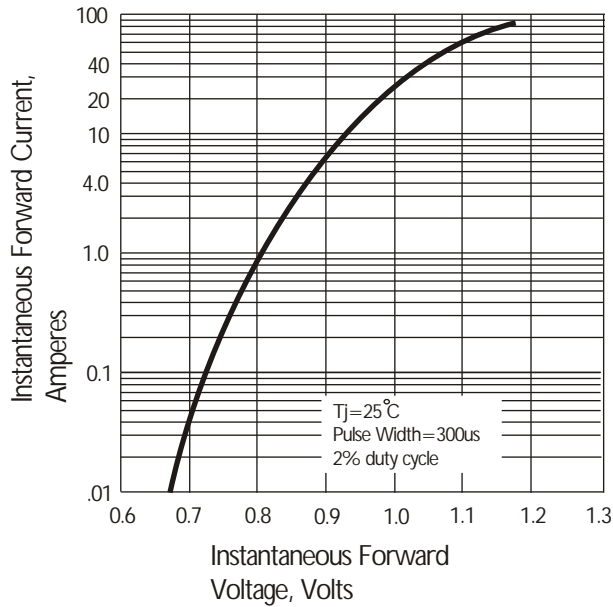


Fig. 4 Typical Reverse Characteristics

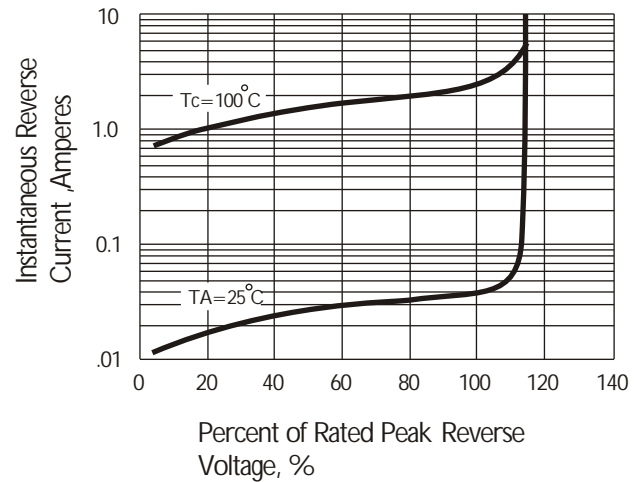


Fig. 5 Typical Junction Capacitance

